Draper Aden Associates
Engineering • Surveying • Environmental Services

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Blacksburg, Virginia 24060
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April 16, 2014

Mr. Kevin Harlow
Water Permit Writer
DEQ-BRRO
3019 Peters Creek Road
Roanoke, VA 24019

RE: Clifton Forge Water Treatment Plant
VPDES Permit No. VA0006076 Reissuance Application
Draper Aden Associates Project No. B11101B-14A

Dear Mr. Harlow:

Enclosed please find a permit application to continue coverage under Virginia Pollution Discharge Elimination System (VPDES) Permit No. VA0006076 associated with the Clifton Forge Water Treatment Plant. Included in the application are EPA Form 1 and Form 2C as well as a completed Public Notice Billing Information Form. There is no fee to reapply for coverage under this permit.

As discussed with you previously via e-mail and telephone, Clifton Forge is planning to dredge accumulated sediment from the reservoir associated with the water treatment plant within the next five years. Therefore, operational activities associated with dredging as it relates to VPDES discharges into Smith Creek were incorporated into this permit application. Please note that dredging activities and dredge material management planning are currently underway and will be refined as the project progresses. Significant changes related to operations including dredging activities will be updated in the facility's Operations and Maintenance Manual, which details the practices and procedures which will be followed to ensure compliance with the requirements of the VPDES permit (Part I.B.3).

Additionally, as you know, discussions regarding sampling of the reservoir's accumulated sediment prior to removal and management are on-going with Clifton Forge and the Virginia Department of Environmental Quality (VDEQ). Sampling of discharges from the existing outfall was conducted to meet the requirements of the permit application and consistent with prior sampling conducted in 2009. Data from outfall sampling are included in the enclosed permit application. Additional data collected from accumulated sediment, if deemed necessary, will be provided to DEQ for review and consideration as it relates to this VPDES permit.

At this time, Clifton Forge is awaiting additional guidance from VDEQ regarding sediment sampling prior to initiating field efforts. In the interim, please review the enclosed permit application for reissuance under VPDES Permit No. VA0006076. Feel free to contact us or Clifton Forge if you have any questions or need additional information.

Sincerely,
DRAPER ADEN ASSOCIATES

Karen Weber, P.G.
Senior Project Geologist

Enclosure

cc: Mr. Bobby Irvine, Plant Manager, Clifton Forge
Ms. Darlene Burcham, Town Manager, Clifton Forge
Mr. Randall Hancock, P.E., Consultant, Draper Aden Associates
Ms. Lori Kroll, Community Resource Specialist, Draper Aden Associates

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

S		T/A	C
F	VA0006076		D

1 2 13 14 15

LABEL ITEMS	
I.	EPA I.D. NUMBER
III.	FACILITY NAME
V.	FACILITY MAILING ADDRESS
VI.	FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)	16	X 17	18
B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)	19	X 20	21
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	22	X 23	24
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)	25	X 26	27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)	28	X 29	30
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)	31	X 32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)	34	X 35	36
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)	37	X 38	39
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	40	X 41	42
J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)	43	X 44	45

III. NAME OF FACILITY

1 SKIP: Town of Clifton Forge Water Treatment Plant

15 16 – 29 30 69

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 Irvine, Robert, Plant Manager	(540) 863-2522
15 16 45	46 48 49 51 52 55

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX

3 PO Box 631

15 16 45

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 Clifton Forge	VA	24422
15 16 40	41 42	47 51

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 2500 Sulfer Spring Road

15 16 45

B. COUNTY NAME

Alleghany

46 70

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6 Clifton Forge	VA	24222	NA
15 16 40	41 42	47 51	52 54

RECEIVED APR 18 2014 DEQ - BRRO

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
7 4941 *(specify)* 4941	7 *(specify)*
C. THIRD	**D. FOURTH**
7 *(specify)*	7 *(specify)*

VIII. OPERATOR INFORMATION

A. NAME: 8 Town of Clifton Forge

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box; if "Other," specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P *(specify)* N/A

D. PHONE *(area code & no.)*: A (540) 863-2500

E. STREET OR P.O. BOX: PO Box 631

F. CITY OR TOWN: B Clifton Forge

G. STATE: VA

H. ZIP CODE: 24422

IX. INDIAN LAND
Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	D. PSD *(Air Emissions from Proposed Sources)*	
9 N VA0006076	9 P N/A	
B. UIC *(Underground Injection of Fluids)*	**E. OTHER** *(specify)*	
9 U N/A	9 N/A	*(specify)* N/A
C. RCRA *(Hazardous Wastes)*	**E. OTHER** *(specify)*	
9 R N/A	9 N/A	*(specify)* N/A

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

We are a municipal water treatment plant providing potable water to the Town of Clifton Forge and Iron Gate. Also the counties of Alleghany, Bath, and Botetourt.

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
Darlene Burcham, Town Manager Town of Clifton Forge	Darlene Burcham	4-17-14

COMMENTS FOR OFFICIAL USE ONLY

C

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
VA0006076

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM 2C NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	37N	23	00	79W	47	05	Smith Creek

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Filter Backwash	50,000 GPD	Treated water forced up through filters to remove solids, are settled out and clear waste discharged (per present permit)	1	R
001	Sed Basin Cleanout	Not More than 150,000 GPD 4 days per year	Solids removed to settling pond then transfered to long term storage pit (onsite) clear water discharged (per permit)	1	U
001	Mixing Basin Cleanout	25,000 GPD 2 days per year	Solids removed in exact manner as above.	1	O/U
001	Dewatering Filter Discharge	240,000 gal/day 90 days 1-time per permit term only	Filtrate Dewatering from dredged material flows to settling pond	1	Q

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☑ YES (*complete the following table*) ☐ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY a. DAYS PER WEEK (*specify average*)	3. FREQUENCY b. MONTHS PER YEAR (*specify average*)	4. FLOW a. FLOW RATE (*in mgd*) 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE (*in mgd*) 2. MAXIMUM DAILY	4. FLOW B. TOTAL VOLUME (*specify with units*) 1. LONG TERM AVERAGE	4. FLOW B. TOTAL VOLUME (*specify with units*) 2. MAXIMUM DAILY	C. DURATION (*in days*)
001	Backwash	7	12	.050	.096	18.25 MG	35 MG	365
001	Sed Basin Cleanout	4 days/yr		.150	.150	600 MG	.600 MG	4
001	Mixing Basin Cleanout	2 days/yr		.025	.025	.050 MG	.050 MG	2
001	Dewatering Filter Discharge -1 time only	7	3	0.24	0.24	21.6 MG	21.6 MG	90

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES (*complete Item III-B*) ☑ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☑ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	1. AVERAGE DAILY PRODUCTION b. UNITS OF MEASURE	1. AVERAGE DAILY PRODUCTION c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	2. AFFECTED OUTFALLS (*list outfall numbers*)

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO.	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
VA0006076

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (*identify the test(s) and describe their purposes below*) ☑ NO (*go to Section VIII*)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

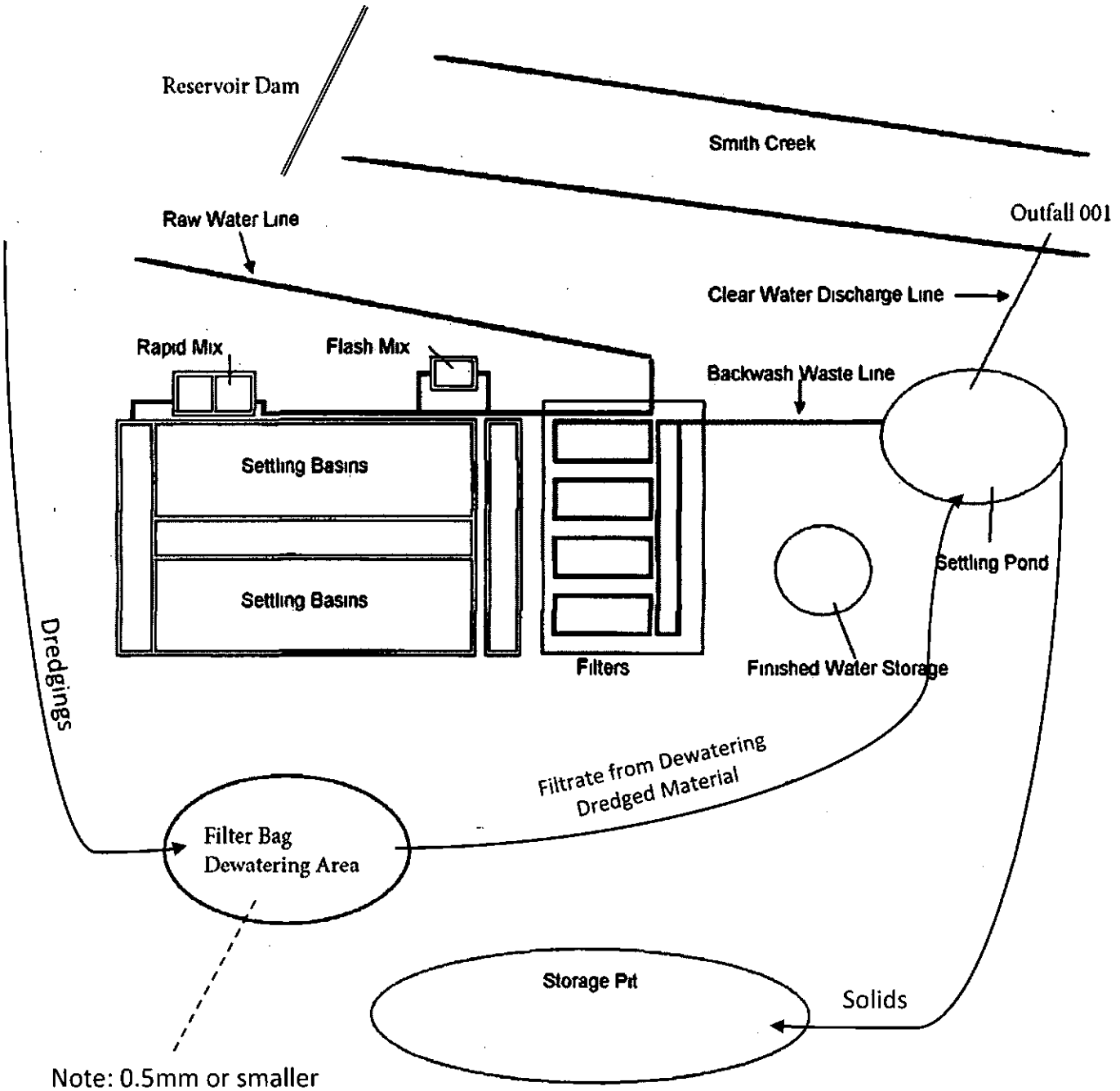
A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
Test America	4101 Shuffel Street NW North Canton, Ohio 44720	330-496-9396	See attached
Water Chemistry Inc.	3404 Aerial Way Drive Roanoke, VA 24018	540-343-3618	

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Darlene Burcham, Town Manager	540-863-2500
C. SIGNATURE Darlene Burcham	D. DATE SIGNED 4-17-14

Clifton Forge Water Treatment Plant Flow Schematic



Note: 0.5mm or smaller filter bags

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
VA006076

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO.

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	3. UNITS b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	<2.0						1	mg/L				
b. Chemical Oxygen Demand (*COD*)	<10						1	mg/L				
c. Total Organic Carbon (*TOC*)	<1.0						1	mg/L				
d. Total Suspended Solids (*TSS*)	<4.0						1	mg/L				
e. Ammonia (*as N*)	<0.20						1	mg/L				
f. Flow	VALUE 196		VALUE		VALUE		1	GPM		VALUE		
g. Temperature (*winter*)	VALUE 11		VALUE		VALUE		1	°C		VALUE		
h. Temperature (*summer*)	VALUE Not available		VALUE		VALUE		0	°C		VALUE		
i. pH	MINIMUM 7.4	MAXIMUM 7.4	MINIMUM 7.4	MAXIMUM 7.4			1	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X	<QL						53					
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)		X												

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)		X												
h. Oil and Grease		X												
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (*as SO_4*) (14808-79-8)	X		3.9						1	mg/l				
l. Sulfide (*as S*)		X												
m. Sulfite (*as SO_3*) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X	<200						1	ug/L				
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
VA0006076	01

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X	<2.0						1	ug/L				
5M. Chromium, Total (7440-47-3)			X	<5.0						1	ug/L				
6M. Copper, Total (7440-50-8)			X	<25						1	ug/L				
7M. Lead, Total (7439-92-1)			X	<3.0						1	ug/L				
8M. Mercury, Total (7439-97-6)			X	<0.20						1	ug/L				
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X	<50						1	ug/L				
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (*Chloromethyl*) Ether (542-88-1)				***DELISTED***	***2-4-81***										
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)				***DELISTED***	***1-8-81***										
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)				***DELISTED***	***01-8-81***										
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-05-2)			X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (*a*) Anthracene (56-55-3)			X												
6B. Benzo (*a*) Pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)			X												
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)			X												
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)			X												
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)			X												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)			X												
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (*a,h*) Anthracene (53-70-3)			X												
20B. 1,2-Dichloro-benzene (95-50-1)			X												
21B. 1,3-Di-chloro-benzene (541-73-1)			X												

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3-Dichlorobenzidine (91-94-1)			X												
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131-11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (*as Azobenzene*) (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B Hexachloroethane (67-72-1)			X												
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X												

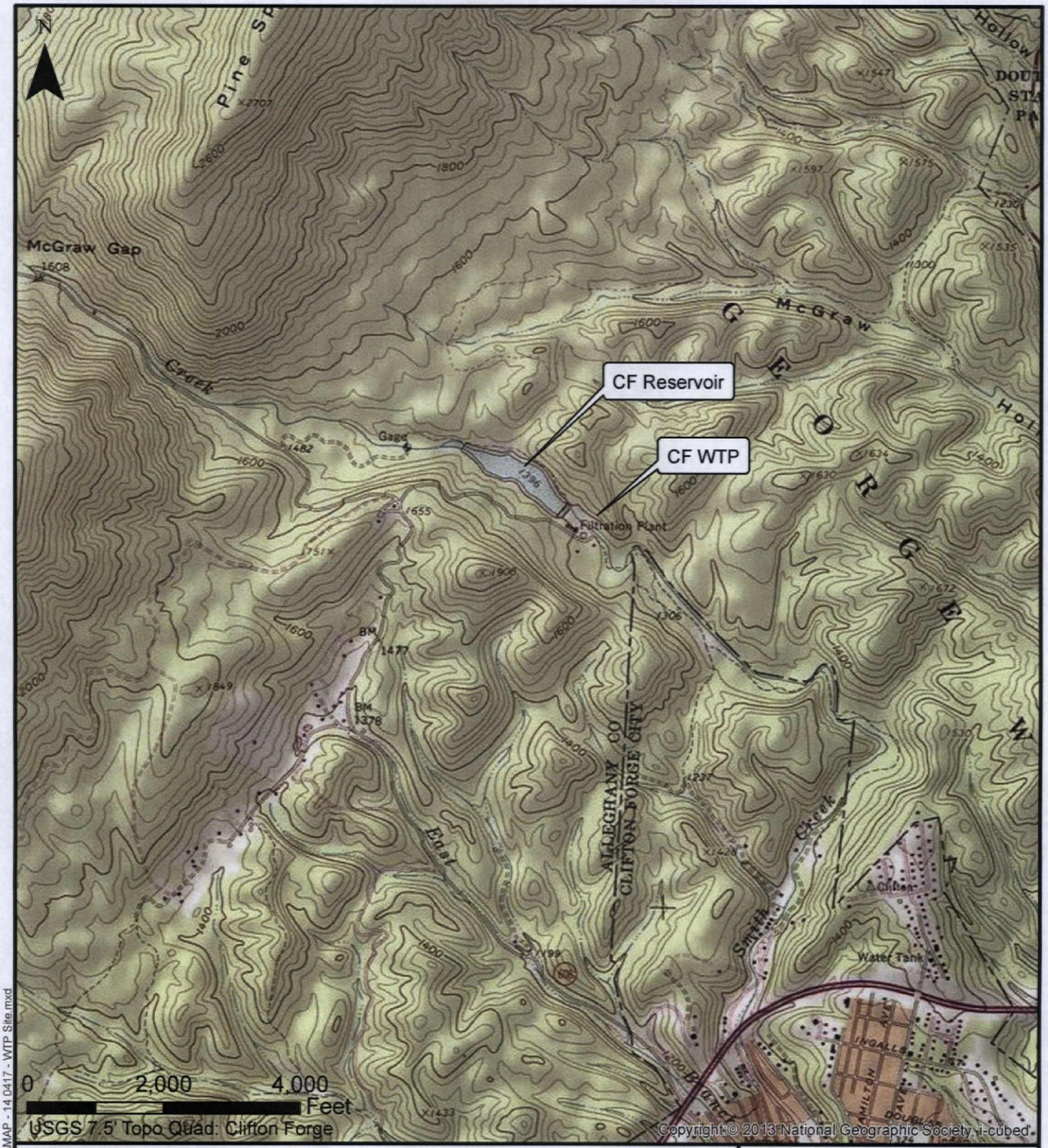
CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Enosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
VA0006076	01

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												



Site Location Map
Clifton Forge Reservoir and Water Treatment Plant
Clifton Forge, Virginia

SCALE 1"= 2000'

PLAN NO. B11101B-14A

Draper Aden Associates
Engineering • Surveying • Environmental Services
2206 South Main Street
Blacksburg, VA 24060
540-552-0444 Fax: 540-552-0291
Richmond, VA
Charlottesville, VA
Hampton Roads, VA

DESIGNED	MBJ
DRAWN	SMF
CHECKED	KMW
DATE	04/17/14

FIGURE 1

Path: P:\B11\1100\B11101B\B11101B-06\GIS\MAP - 14 0417 - WTP Site.mxd

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-35781-1
Client Project/Site: Clifton Forge Reservoir

For:
Draper Aden Associates, Inc.
2206 South Main street
Blacksburg, Virginia 24060

Attn: Janet Frazier

Authorized for release by:
4/14/2014 5:13:36 PM

Mark Loeb, Project Manager II
(330)966-9387
mark.loeb@testamericainc.com

Table of Contents

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-35781-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Draper Aden Associates, Inc.

Project: Clifton Forge Reservoir

Report Number: 240-35781-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/4/2014 12:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

TOTAL RECOVERABLE METALS (ICP)

Samples OUTFALL 001 (240-35781-1) and TRIP BLANK (240-35781-2) were analyzed for total recoverable metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/07/2014 and analyzed on 04/08/2014.

No difficulties were encountered during the metals analysis. All quality control parameters were within the acceptance limits.

MERCURY

Samples OUTFALL 001 (240-35781-1) and TRIP BLANK (240-35781-2) were analyzed for mercury in accordance with EPA Method 245.1. The samples were prepared on 04/07/2014 and analyzed on 04/08/2014.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL 001 (240-35781-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 04/08/2014.

Job ID: 240-35781-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No difficulties were encountered during the TSS analysis. All quality control parameters were within the acceptance limits.

ANIONS

Sample OUTFALL 001 (240-35781-1) was analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 04/08/2014.

No difficulties were encountered during the anions analysis. All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND

Sample OUTFALL 001 (240-35781-1) was analyzed for Biochemical oxygen demand in accordance with SM 5210B. The samples were analyzed on 04/04/2014.

The following sample was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: OUTFALL 001 (240-35781-1).

The USB dilution water D.O. depletion was greater than 0.2 mg/L at 0.37 mg/L, but less than the reporting limit of 2.0 mg/L. The associated sample results in batch 125341 are reported. OUTFALL 001 (240-35781-1)

No other difficulties were encountered during the BOD analysis. All other quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND

Sample OUTFALL 001 (240-35781-1) was analyzed for chemical oxygen demand in accordance with SM 5220D. The samples were analyzed on 04/09/2014.

Chemical Oxygen Demand failed the recovery criteria high for the MS/MSD of sample OUTFALL 001MS/MSD (240-35781-1) in batch 240-125803. Refer to the QC report for details.

No other difficulties were encountered during the COD analysis. All other quality control parameters were within the acceptance limits.

TOTAL ORGANIC CARBON

Sample OUTFALL 001 (240-35781-1) was analyzed for total organic carbon in accordance with SM 5310. The samples were analyzed on 04/07/2014.

No difficulties were encountered during the TOC analysis. All quality control parameters were within the acceptance limits.

AMMONIA

Sample OUTFALL 001 (240-35781-1) was analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 04/14/2014.

Ammonia was detected in method blank MB 240-126417/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the ammonia analysis. All other quality control parameters were within the acceptance limits.

Method Summary

Client: Draper Aden Associates, Inc.
Project/Site: Clifton Forge Reservoir

TestAmerica Job ID: 240-35781-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL CAN
245.1	Mercury (CVAA)	EPA	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
5210B-2001	BOD, 5-Day	SM	TAL CAN
5220D-1997	Chemical Oxygen Demand	SM	TAL CAN
5310C-2000	Total Organic Carbon/Persulfate - Ultrav	SM	TAL CAN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CAN
SM 4500 NH3 D	Ammonia	SM	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Draper Aden Associates, Inc.
Project/Site: Clifton Forge Reservoir

TestAmerica Job ID: 240-35781-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-35781-1	OUTFALL 001	Water	04/02/14 14:45	04/04/14 12:25
240-35781-2	TRIP BLANK	Water	03/31/14 00:00	04/04/14 12:25

Detection Summary

Client: Draper Aden Associates, Inc.
Project/Site: Clifton Forge Reservoir

TestAmerica Job ID: 240-35781-1

Client Sample ID: OUTFALL 001 — Lab Sample ID: 240-35781-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3.9		1.0	0.12	mg/L	1		300.0	Total/NA
Ammonia	0.040	J B	0.20	0.025	mg/L	1		SM 4500 NH3 D	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-35781-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Draper Aden Associates, Inc.
Project/Site: Clifton Forge Reservoir

TestAmerica Job ID: 240-35781-1

Client Sample ID: OUTFALL 001
Date Collected: 04/02/14 14:45
Date Received: 04/04/14 12:25

Lab Sample ID: 240-35781-1
Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	97	ug/L		04/07/14 08:34	04/08/14 10:21	1
Cadmium	2.0	U	2.0	0.66	ug/L		04/07/14 08:34	04/08/14 10:21	1
Chromium	5.0	U	5.0	2.2	ug/L		04/07/14 08:34	04/08/14 10:21	1
Copper	25	U	25	4.5	ug/L		04/07/14 08:34	04/08/14 10:21	1
Lead	3.0	U	3.0	1.9	ug/L		04/07/14 08:34	04/08/14 10:21	1
Zinc	50	U	50	5.0	ug/L		04/07/14 08:34	04/08/14 10:21	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		04/07/14 13:05	04/08/14 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3.9		1.0	0.12	mg/L			04/08/14 19:10	1
Biochemical Oxygen Demand	2.0	U H	2.0	2.0	mg/L			04/04/14 14:46	1
Chemical Oxygen Demand	10	U	10	7.8	mg/L			04/09/14 11:31	1
Total Organic Carbon	1.0	U	1.0	0.24	mg/L			04/07/14 12:29	1
Total Suspended Solids	4.0	U	4.0	1.8	mg/L			04/08/14 09:08	1
Ammonia	0.040	J B	0.20	0.025	mg/L			04/14/14 12:33	1

Client: Draper Aden Associates, Inc.
Project/Site: Clifton Forge Reservoir

TestAmerica Job ID: 240-35781-1

Client Sample ID: TRIP BLANK — **Lab Sample ID: 240-35781-2**

Date Collected: 03/31/14 00:00 — **Matrix: Water**

Date Received: 04/04/14 12:25

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	97	ug/L		04/07/14 08:34	04/08/14 10:45	1
Cadmium	2.0	U	2.0	0.66	ug/L		04/07/14 08:34	04/08/14 10:45	1
Chromium	5.0	U	5.0	2.2	ug/L		04/07/14 08:34	04/08/14 10:45	1
Copper	25	U	25	4.5	ug/L		04/07/14 08:34	04/08/14 10:45	1
Lead	3.0	U	3.0	1.9	ug/L		04/07/14 08:34	04/08/14 10:45	1
Zinc	50	U	50	5.0	ug/L		04/07/14 08:34	04/08/14 10:45	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		04/07/14 13:05	04/08/14 14:23	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 240-125461/1-A
Matrix: Water
Analysis Batch: 125754

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 125461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	97	ug/L		04/07/14 08:34	04/08/14 07:51	1
Cadmium	2.0	U	2.0	0.66	ug/L		04/07/14 08:34	04/08/14 07:51	1
Chromium	5.0	U	5.0	2.2	ug/L		04/07/14 08:34	04/08/14 07:51	1
Copper	25	U	25	4.5	ug/L		04/07/14 08:34	04/08/14 07:51	1
Lead	3.0	U	3.0	1.9	ug/L		04/07/14 08:34	04/08/14 07:51	1
Zinc	50	U	50	5.0	ug/L		04/07/14 08:34	04/08/14 07:51	1

Lab Sample ID: LCS 240-125461/2-A
Matrix: Water
Analysis Batch: 125754

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 125461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1970		ug/L		98	85 - 115
Cadmium	50.0	50.1		ug/L		100	85 - 115
Chromium	200	193		ug/L		97	85 - 115
Copper	250	244		ug/L		97	85 - 115
Lead	500	468		ug/L		94	85 - 115
Zinc	500	483		ug/L		97	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 240-125464/1-A
Matrix: Water
Analysis Batch: 125741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		04/07/14 13:05	04/08/14 13:42	1

Lab Sample ID: LCS 240-125464/2-A
Matrix: Water
Analysis Batch: 125741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.88		ug/L		98	85 - 115

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-125709/3
Matrix: Water
Analysis Batch: 125709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.12	mg/L			04/08/14 13:30	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-125709/4
Matrix: Water
Analysis Batch: 125709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.1		mg/L		96	90 - 110

Method: 5210B-2001 - BOD, 5-Day

Lab Sample ID: SCB 240-125341/2
Matrix: Water
Analysis Batch: 125341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			04/04/14 13:24	1

Lab Sample ID: USB 240-125341/1
Matrix: Water
Analysis Batch: 125341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			04/04/14 13:22	1

Lab Sample ID: LCS 240-125341/3
Matrix: Water
Analysis Batch: 125341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	172		mg/L		87	85 - 115

Method: 5220D-1997 - Chemical Oxygen Demand

Lab Sample ID: MB 240-125803/9
Matrix: Water
Analysis Batch: 125803

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	10	7.8	mg/L			04/09/14 11:28	1

Lab Sample ID: LCS 240-125803/10
Matrix: Water
Analysis Batch: 125803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	68.0	61.0		mg/L		90	90 - 110

Lab Sample ID: 240-35781-1 MS
Matrix: Water
Analysis Batch: 125803

Client Sample ID: OUTFALL 001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	10	U	50.0	58.9	F1	mg/L		118	90 - 110

Method: 5220D-1997 - Chemical Oxygen Demand (Continued)

Lab Sample ID: 240-35781-1 MSD — **Client Sample ID: OUTFALL 001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 125803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	10	U	50.0	57.6	F1	mg/L		115	90 - 110	2	20

Method: 5310C-2000 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 240-125529/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 125529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.24	mg/L			04/07/14 09:20	1

Lab Sample ID: LCS 240-125529/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 125529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	40.8	38.1		mg/L		93	88 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-125642/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 125642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.0	U	4.0	1.8	mg/L			04/08/14 09:08	1

Lab Sample ID: LCS 240-125642/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 125642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	46.3	48.0		mg/L		104	73 - 113

Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-126417/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 126417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0357	J	0.20	0.025	mg/L			04/14/14 12:32	1

Method: SM 4500 NH3 D - Ammonia (Continued)

Lab Sample ID: LCS 240-126417/8
Matrix: Water
Analysis Batch: 126417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	15.3	16.6		mg/L		108	85 - 114

Lab Sample ID: 240-35781-1 MS
Matrix: Water
Analysis Batch: 126417

Client Sample ID: OUTFALL 001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.040	J B	2.50	2.51		mg/L		99	75 - 125

Lab Sample ID: 240-35781-1 MSD
Matrix: Water
Analysis Batch: 126417

Client Sample ID: OUTFALL 001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.040	J B	2.50	2.54		mg/L		100	75 - 125	1	20

Metals

Prep Batch: 125461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total Recoverable	Water	200.7	
240-35781-2	TRIP BLANK	Total Recoverable	Water	200.7	
LCS 240-125461/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
MB 240-125461/1-A	Method Blank	Total Recoverable	Water	200.7	

Prep Batch: 125464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total/NA	Water	245.1	
240-35781-2	TRIP BLANK	Total/NA	Water	245.1	
LCS 240-125464/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 240-125464/1-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 125741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total/NA	Water	245.1	125464
240-35781-2	TRIP BLANK	Total/NA	Water	245.1	125464
LCS 240-125464/2-A	Lab Control Sample	Total/NA	Water	245.1	125464
MB 240-125464/1-A	Method Blank	Total/NA	Water	245.1	125464

Analysis Batch: 125754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	125461
240-35781-2	TRIP BLANK	Total Recoverable	Water	200.7 Rev 4.4	125461
LCS 240-125461/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	125461
MB 240-125461/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	125461

General Chemistry

Analysis Batch: 125341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total/NA	Water	5210B-2001	
LCS 240-125341/3	Lab Control Sample	Total/NA	Water	5210B-2001	
SCB 240-125341/2	Method Blank	Total/NA	Water	5210B-2001	
USB 240-125341/1	Method Blank	Total/NA	Water	5210B-2001	

Analysis Batch: 125529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total/NA	Water	5310C-2000	
LCS 240-125529/4	Lab Control Sample	Total/NA	Water	5310C-2000	
MB 240-125529/3	Method Blank	Total/NA	Water	5310C-2000	

Analysis Batch: 125642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total/NA	Water	SM 2540D	
LCS 240-125642/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 240-125642/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 125709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 125709 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-125709/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-125709/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 125803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total/NA	Water	5220D-1997	
240-35781-1 MS	OUTFALL 001	Total/NA	Water	5220D-1997	
240-35781-1 MSD	OUTFALL 001	Total/NA	Water	5220D-1997	
LCS 240-125803/10	Lab Control Sample	Total/NA	Water	5220D-1997	
MB 240-125803/9	Method Blank	Total/NA	Water	5220D-1997	

Analysis Batch: 126417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-35781-1	OUTFALL 001	Total/NA	Water	SM 4500 NH3 D	
240-35781-1 MS	OUTFALL 001	Total/NA	Water	SM 4500 NH3 D	
240-35781-1 MSD	OUTFALL 001	Total/NA	Water	SM 4500 NH3 D	
LCS 240-126417/8	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	
MB 240-126417/7	Method Blank	Total/NA	Water	SM 4500 NH3 D	

Client Sample ID: OUTFALL 001 — **Lab Sample ID: 240-35781-1**
Date Collected: 04/02/14 14:45 — **Matrix: Water**
Date Received: 04/04/14 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			125461	04/07/14 08:34	LPM	TAL CAN
Total Recoverable	Analysis	200.7 Rev 4.4		1	125754	04/08/14 10:21	KLC	TAL CAN
Total/NA	Prep	245.1			125464	04/07/14 13:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	125741	04/08/14 14:03	AMM2	TAL CAN
Total/NA	Analysis	300.0		1	125709	04/08/14 19:10	LKG	TAL CAN
Total/NA	Analysis	5210B-2001		1	125341	04/04/14 14:46	NJE	TAL CAN
Total/NA	Analysis	5220D-1997		1	125803	04/09/14 11:31	TPH	TAL CAN
Total/NA	Analysis	5310C-2000		1	125529	04/07/14 12:29	TPH	TAL CAN
Total/NA	Analysis	SM 2540D		1	125642	04/08/14 09:08	LCN	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	126417	04/14/14 12:33	JAK	TAL CAN

Client Sample ID: TRIP BLANK — **Lab Sample ID: 240-35781-2**
Date Collected: 03/31/14 00:00 — **Matrix: Water**
Date Received: 04/04/14 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			125461	04/07/14 08:34	LPM	TAL CAN
Total Recoverable	Analysis	200.7 Rev 4.4		1	125754	04/08/14 10:45	KLC	TAL CAN
Total/NA	Prep	245.1			125464	04/07/14 13:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	125741	04/08/14 14:23	AMM2	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Draper Aden Associates, Inc.
Project/Site: Clifton Forge Reservoir

TestAmerica Job ID: 240-35781-1

Laboratory: TestAmerica Canton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Virginia	NELAP	3	460175	09-14-14

The following analytes are included in this report, but certification is not offered by the governing authority:

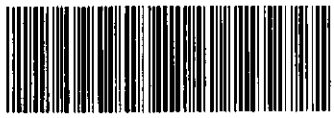
Analysis Method	Prep Method	Matrix	Analyte
SM 4500 NH3 D		Water	Ammonia

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-35781 Chain of Custody

4,4

CHAIN OF CUSTODY RECORD

Laboratory: Test America, 4101 Shuffel Drive NW, North Canton, OH, 44720 / Mark Loeb, Manager / 1-330-966-9387

Client:	Town of Clifton Forge	**Consultant:**	Draper Aden Associates	**Sample Site:**	Clifton Forge Reservoir
Attn:	Mr. Bobby Irvine	**Attn:**	Janet C. Frazier	**Location:**	Clifton Forge , Virginia
Addres	2500 Sulfur Spring Road Clifton Forge, VA 24422	**Address:**	2206 South Main Street Blacksburg, Virginia 24060	**Event:**	Outfall 001
Phone:		**Phone:**	(540) 552-0444	**DAA JN:**	B11101B-14A
Fax:		**Fax:**	(540) 552-0291	**Lab JN:**	

Project Specific (PS) or Batch (B) QC:
Sample Collection for Project Complete? YES
UPS
Carrier: 1Z 737 301 01 9981 3127 1
Tracking Number:

Box 1: Matrix
SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blan; P Product; O Other

Box 2: Preservative
A HCl; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; E NaOH; F ZnAc; G Other (Specify); H None

Box 3: Filtered/Unfiltered
F Filtered; U Unfiltered

Box 4: Sample Type
G Grab; C Composite

Box 5: Sample Container Type
P Plastic; AG Amber Glass; V VOA; CG Clear Glass

Invoice
Copy to Consultant: YES
Bill: CLIENT OTHER
Preserved and shipped on ice: YES

Box 4 - Sample Type	G	G	G	G	G	G	G		
Box 3 - Filtered/Unfiltered	U	U	U	U	U	U	U		
Required pH of Sample	-	-	<2	<2	<2	<2	-		
Box 2 - Preservative	H	H	C	C	C	B	H		
Box 5 - Sample Container Type	1-1L P	~~1-1L P~~	1- 500ml P		2-40ml vial	1-500ml P	1-500ml P		

Sample ID	Date: 2014	Time	Box 1: Matrix	Number of Bottles	BOD SM 5210B	TSS	Ammonia (as N) -SM 4500 - NH_3 D	COD SM 5220D	TOC - SM 5310C	Total Metals 200.7 or 200.8; See notes for analyte list	Sulfate - 300.0			Field Measurements - pH:	Temp:	Flow:
Outfall 001	4/2	14:45	SW	6	X	X	X	X	X	X	X					
Trip Blank	3/31	—	T	1						X				Hold until authorized by K. Wilder. CDS 4-3-14		

GENERAL NOTES:
1. BOD - 48 Hour Hold - ship same day.
2. VELAP accreditation required.
3. Report MDL/LOQ and estimated results.
4. Total Metals: Al, Cd, Cr, Cu, Pb, Hg, Zn.

Clients Special Instructions:

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No

Describe problems, if any:

Sampler Name (Print):	Randall Hancock	Date: 4/2/14	#1 Relinquished by (Signature):		Date: 4/3/14	#2 Relinquished by (Signature):	Date:
Sampler Signature:		Time: 2:45 pm	Company Name:	Draper Aden Associates	Time: 17:30 hrs	Company Name:	Time:
Sampler Name (Print):		Date:	#1 Received by (Signature):		Date: 4/4/14	#2 Received by (Signature):	Date:
Sampler Signature:		Time:	Company Name:	TA	Time: 1225	Company Name:	Time:

Sample Storage Time Requested: 30 DYS ORG/6 MTHS INORG

4/14/2014

TestAmerica Canton Sample Receipt Form/Narrative Login # : 35781
Canton Facility

Client Draper Aden Site Name Clinton Forge
Cooler Received on 4/4/14 Opened on 4/4/14
Cooler unpacked by: Terry Burns

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other
TestAmerica Cooler # Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   IR GUN# A (CF +0 °C) Observed Cooler Temp. 4.4 °C Corrected Cooler Temp. 4.4 °C
   IR GUN# 4 (CF -1 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C ☐ See Multiple Cooler Form
   IR GUN# 5 (CF +1 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
   IR GUN# 8 (CF +1 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Did all bottles arrive in good condition (Unbroken)? Yes No
7. Could all bottle labels be reconciled with the COC? Yes No
8. Were correct bottle(s) used for the test(s) indicated? Yes No
9. Sufficient quantity received to perform indicated analyses? Yes No
10. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC391902
11. Were VOAs on the COC? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other
Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.
Time preserved: ____ Preservative(s) added/Lot number(s): ____

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
OUTFALL 001	240-35781-D-1	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
OUTFALL 001	240-35781-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
TRIP BLANK	240-35781-A-2	Plastic 500ml - with Nitric Acid	<2	_____	_____

PUBLIC NOTICE BILLING INFORMATION FORM

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290. C. 2.

Agent/Department to be billed: Town of Clifton Forge

Owner: Town of Clifton Forge

Applicant's Address: P.O. Box 631

Clifton Forge, VA 24422

Agent's Telephone No: 540-863-2500

Authorizing Agent: Darlene Burcham
Signature

Facility Name: Clifton Forge Water Treatment Plant
VPDES Permit No. VA0006076

Please return to:

Kevin Harlow
DEQ – Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, Virginia 24019